

ABSTRACT OF THE DISCLOSURE

A method is disclosed for operation of an image-generating optical system for detection of characteristic quantities of the wavelength-dependent behavior of an illuminated specimen, such as the emission behavior and/or absorption behavior and, in particular, the fluorescence and/or luminescence and/or phosphorescence and/or enzyme-active light emission and/or enzyme-active fluorescence, for the operation of a laser scanning microscope, comprising the steps of splitting the image point information of the specimen into spectral components in a spatially resolved manner on the detection side in dependence on wavelength and carrying out at least one summing for different spectral components.

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